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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/665,715	09/20/2000	Richard Scheel	80398.P331	5599

7590

11/18/2003

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EXAMINER

HUYNH, KIM T

ART UNIT

PAPER NUMBER

2189

DATE MAILED: 11/18/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

3

Office Action Summary

Application No.

09/665,715

Applicant(s)

SCHEEL ET AL.

Examiner

Kim T. Huynh

Art Unit

2189

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 September 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Toguchi (US Patent 6,408,355) in view of Hatae et al. (Pub. No US 20030172201)

a. As per claims 1, 15, 18, Toguchi discloses method of maintaining communications in a bus bridge (fig.9, 6) interconnect comprising a plurality of buses linked by at least one bus bridge, the method comprising:

- receiving a change indication signal from a talker (sender) node; (col.2, 30-65), wherein sending request implies receiving change indication signal) *col 15, 19-21, 30-65, 48*
talker Sender (packet sending node in synchronous communication) owner - processing it
owner sends request to bridge - bridge receive request for communication on path from sender to receiver
- performing an address resolution protocol in response to the change indication signal to find an updated node identification address("nodeID") for a listener node; and (col.4, lines 7-17), (col.6, lines 23-26), wherein owner couple with IRM which managing and controlling transactions between talker(sending) and listener(receiving)
col 15, 35-48
col 5, 18-19
col 6 - 11
- storing the updated listener nodeID with the listener node EUI. (col.8, lines 26-48), (col.4, lines 25-56)
col 3, 27-42

Toguchi discloses all the limitations except using an extended unique identifier ("EUI") for node identification address. However, Hatae discloses each of the connections is identified by the combination of the EUI-64 and the connection_ID.[0319-0320]

It would have been obvious to one having ordinary skills in the art at the time the invention was made to incorporate Hatae's teaching into Toguchi's method so as to provide the technologies and techniques which make it possible to continuously and reliably transfer data for the data communication system. [0032]

b. As per claim 2, Toguchi discloses further comprising transmitting a signal including the updated nodeID for the listener. (col.8, lines 36-48), (col.4, lines 25-56) *cf 7, 4-37*

c. As per claim 3, Toguchi discloses wherein performing an address resolution protocol comprises examining a bus bridge to see what buses exist, searching each bus until a matching is found, and identifying the nodeID associated with the matching. (col.7, lines 49-67), (col.8, lines 5-7) *cf 15, 35-48, cf 7, 4-37*

d. As per claim 4, Toguchi discloses wherein the change indication signal is a net change signal. (col.7, lines 56-67) *cf 17, 25-47, cf 5, 18-46, 11*

e. As per claim 5, Toguchi discloses wherein the buses are similar to a version of the IEEE standard 1394 bus. (fig.2, 4), abstract *cf 3, 51-67*

f. As per claim 6, Toguchi discloses wherein the updated listener nodeID and listener node EUI are stored in a bus bridge portal. (col.8, lines 36-48)

cf 5, 18-60

g. As per claims 7, 11, 16-17, 19-20, Toguchi discloses a method of maintaining communications in a bus bridge interconnect comprising a plurality of buses linked by at least one bus bridge, the method comprising:

- receiving a signal from a talker node at a controller (fig.6, 52) node; *col 9, 28-*
- transmitting the signal from the controller node to a listener node with an updated controller nodeID as the source nodeID and the controller node as the source; (col.6, lines 1-16)
- searching the listener node memory (fig.6, 53,54) for the controller node; *col 7, 4-37*
- comparing, if the received controller node matches a stored controller node, the received controller nodeID to a stored controller nodeID associated with the stored controller node; (col.7, lines 42-67), (col.8, lines 1-48)
- replacing the stored controller nodeID with the received controller nodeID in the listener node memory if the received controller nodeID does not match the stored controller nodeID. (col.7, lines 42-67)

h. As per claims 8, 12, Toguchi discloses transmitting a reply signal including the updated nodeID and the controller node. (col.8, lines 1-7)

i. As per claims 9, 13, Toguchi discloses discarding the received message if the received controller node does not match a stored controller node. (col.7, lines 49-55) *col 15, 20-35*

j. As per claims 10, 14, wherein the buses are similar to a version of the IEEE standard 1394 (fig.2, 4) bus.

Response to Arguments

3. Applicant's requested for reconsideration filed on 9/15/03 have been fully considered but are moot in view of the new ground(s) of rejection.

a. In response to Applicant's argument that Toguchi does not disclose Extended Unique Identifier which is assigned by the manufacturer of a node Hatae discloses each of the connections is identified by the combination of the EUI-64 and the connection_ID.[0319-0320]

Conclusion

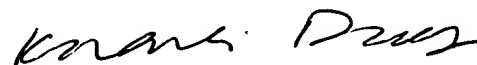
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kim Huynh whose telephone number is (703)305-5384 or via e-mail addressed to [kim.huynh3@uspto.gov]. The examiner can normally be reached on M-F 8:30AM- 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on (703) 305-4815 or via e-mail addressed to [mark.rinehart@uspto.gov]. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9306 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)306-5631.

Kim Huynh

Nov. 6, 2003



Khanh Dang
Primary Examiner